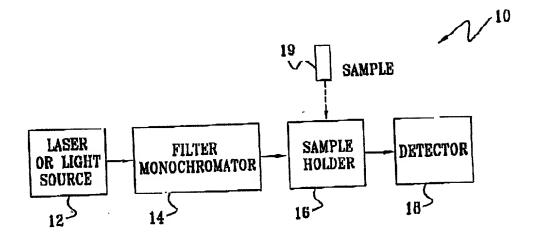


FIG. 1C



.

FIG. 2

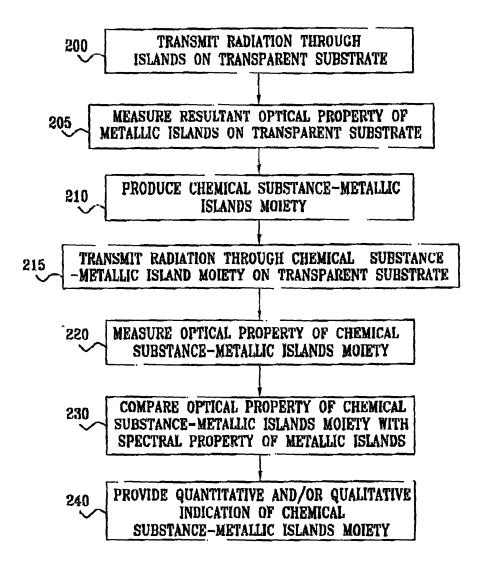
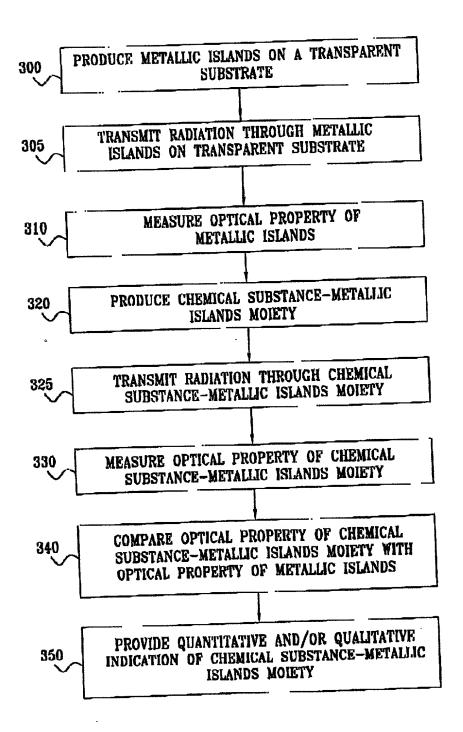


FIG. 3A



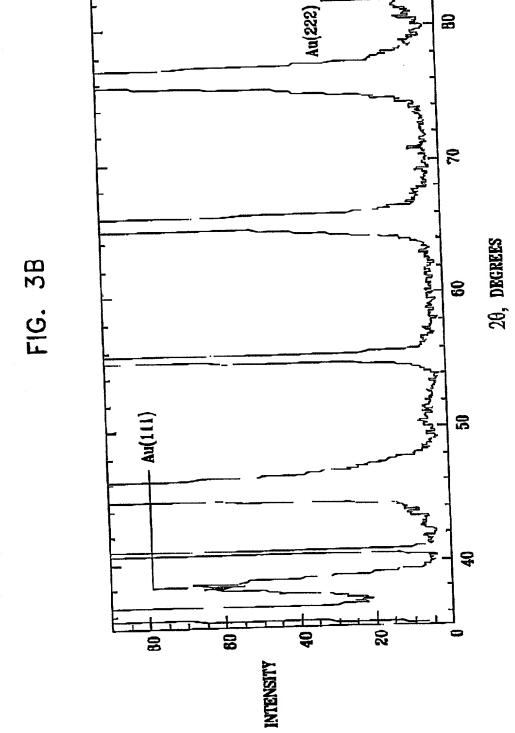


FIG. 4A

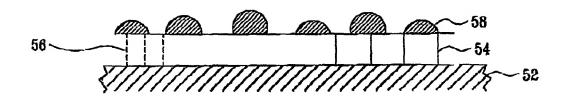
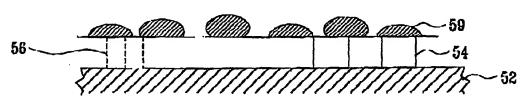


FIG. 4B



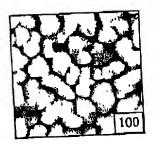


FIG. 4C/1

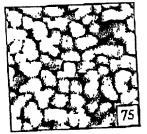
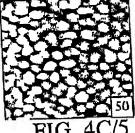


FIG. 4C/3



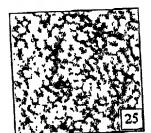


FIG. 4C/7

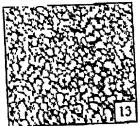


FIG. 4C/9

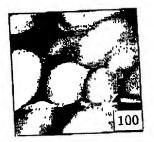


FIG. 4C/2

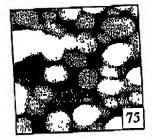
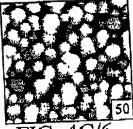


FIG. 4C/4



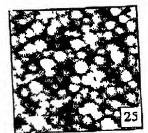


FIG. 4C/8

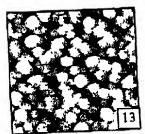
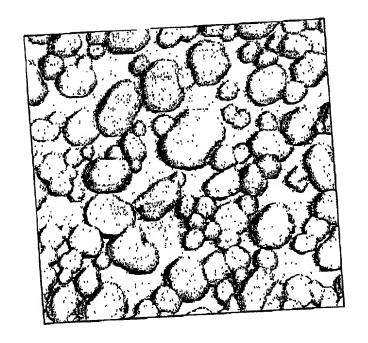
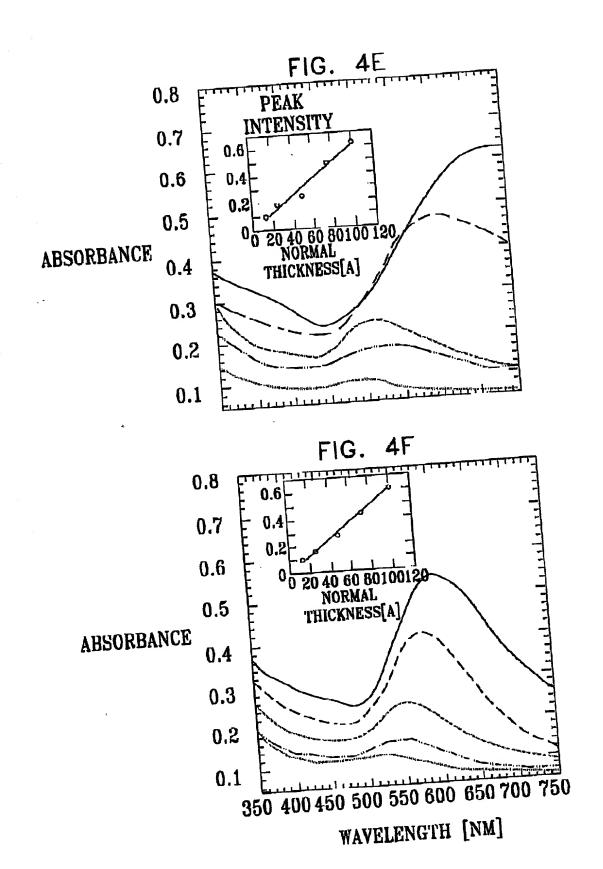
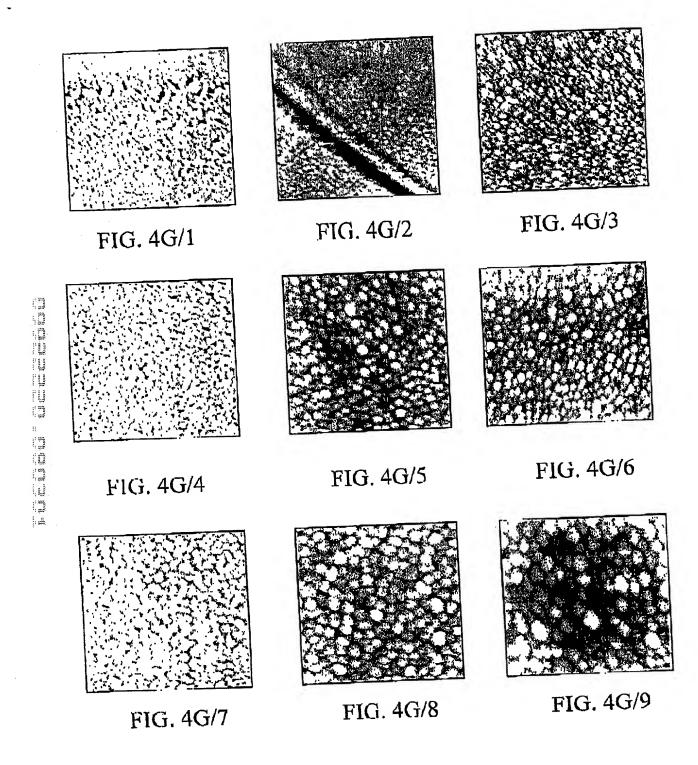


FIG. 4C/10

FIG. 4D







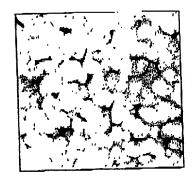


FIG. 4G/10 4G/12



FIG. 4G/11

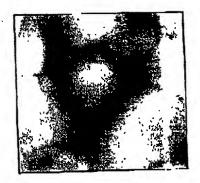


FIG.

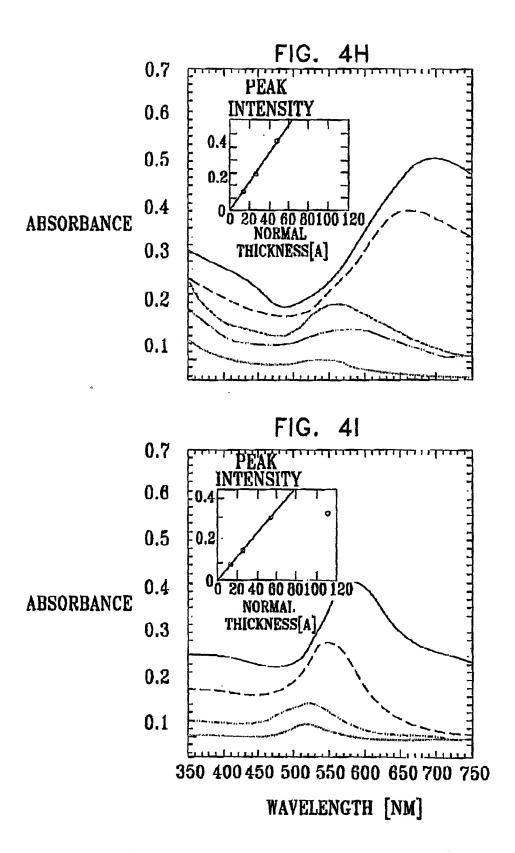
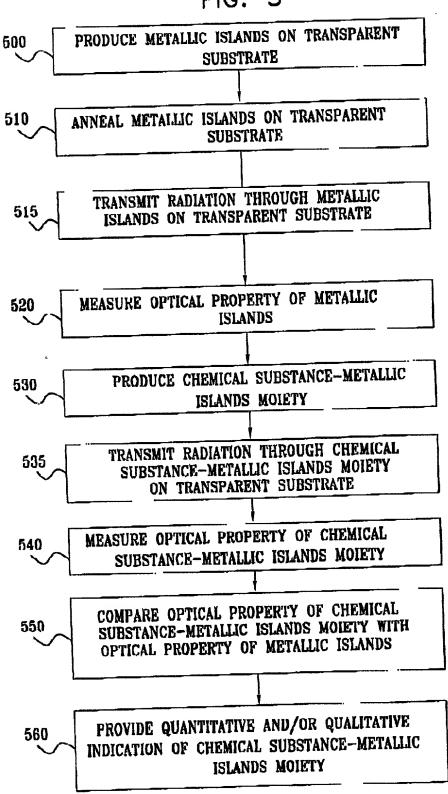


FIG. 5



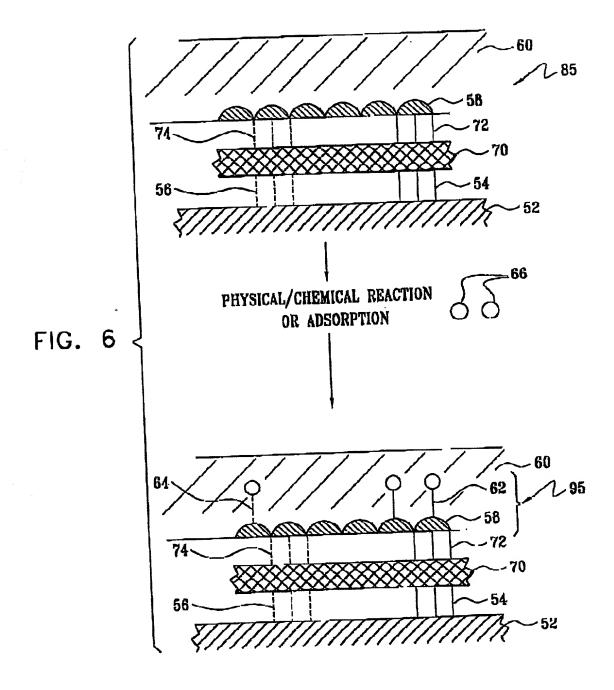


FIG. 7

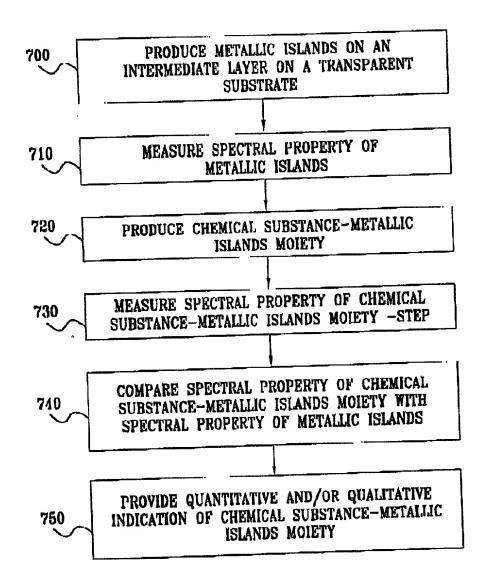


FIG. 8A

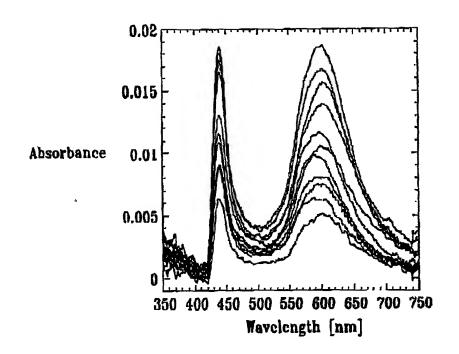
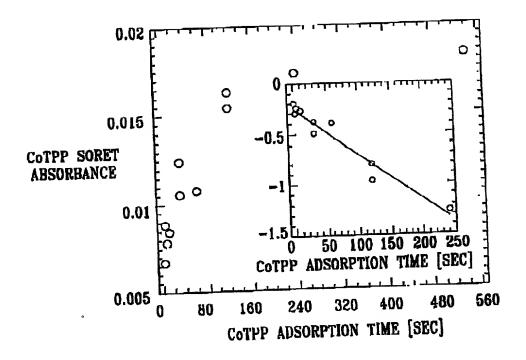


FIG. 8B



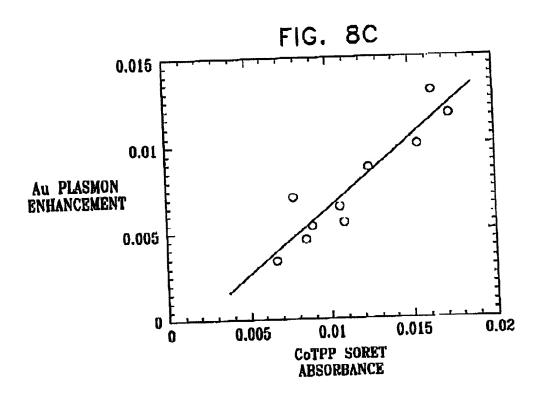


FIG. 9A

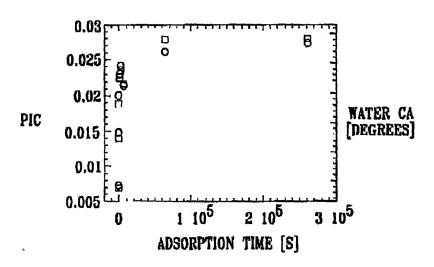


FIG. 9B

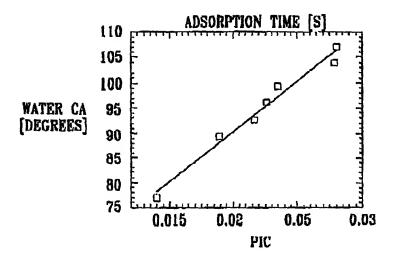
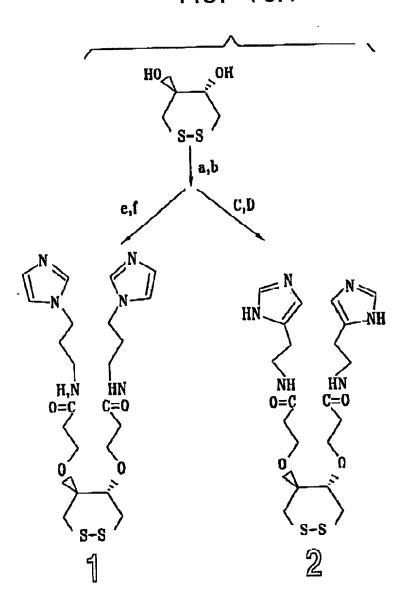
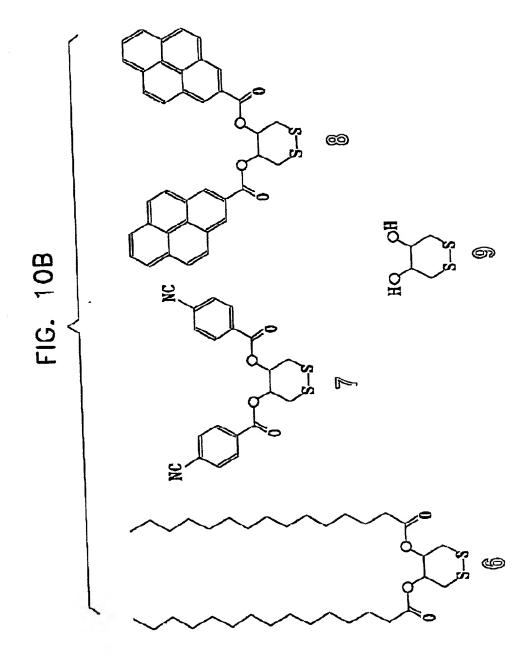
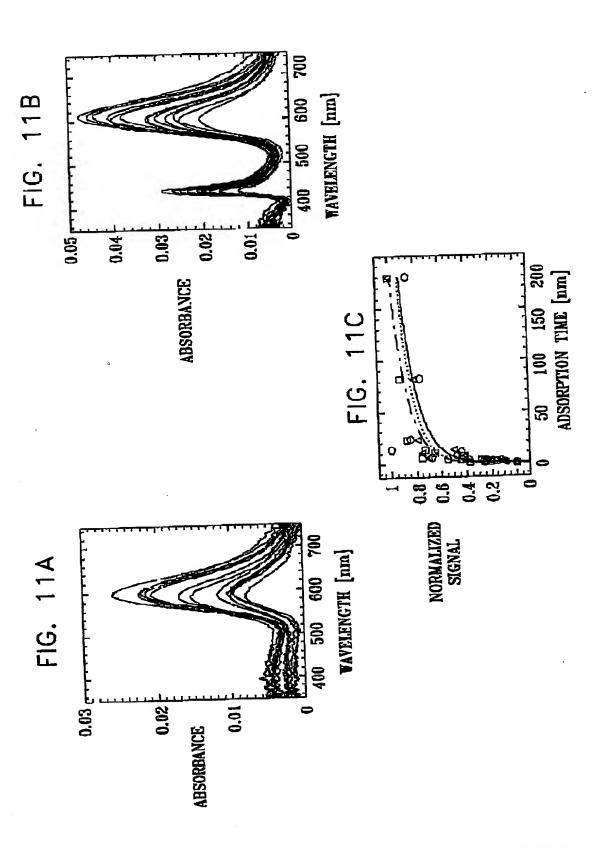


FIG. 10A







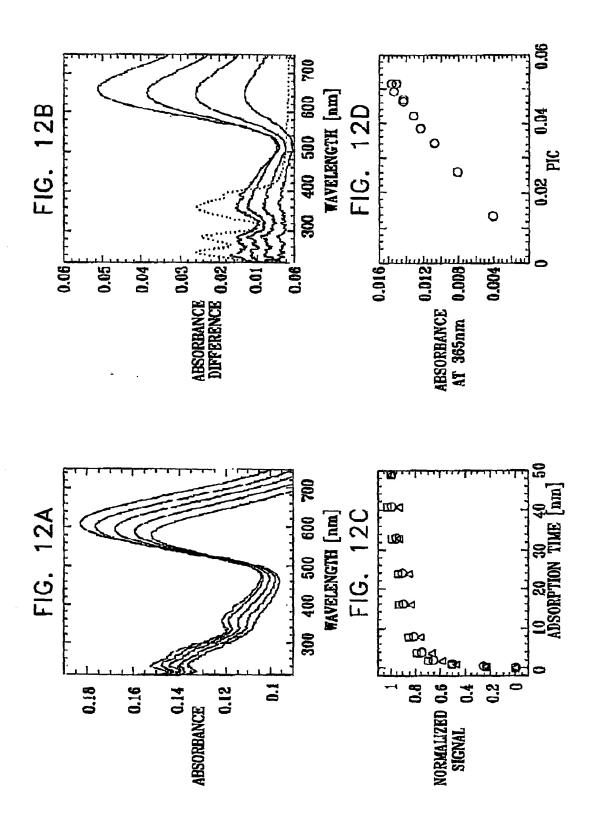
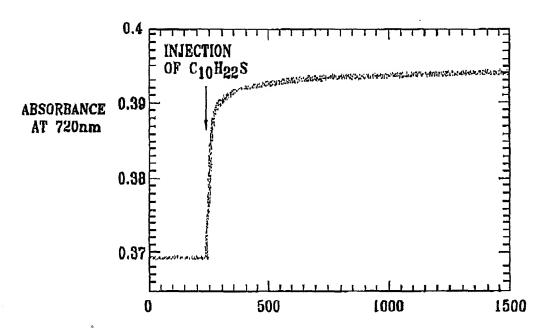


FIG. 13A



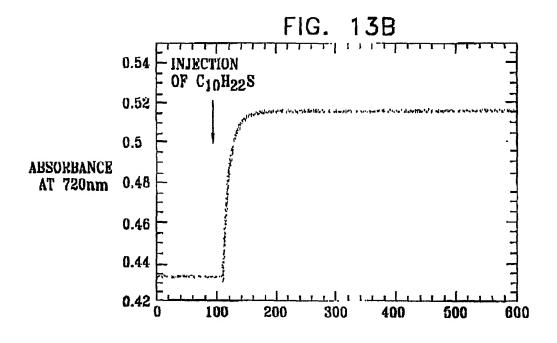
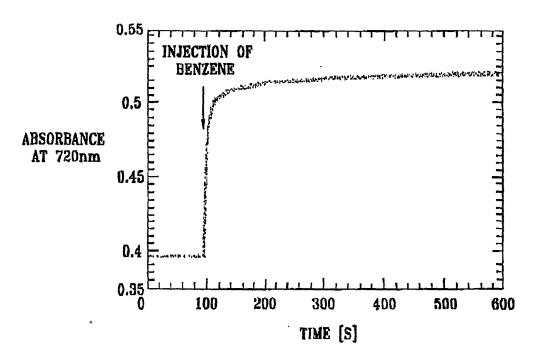


FIG. 14A



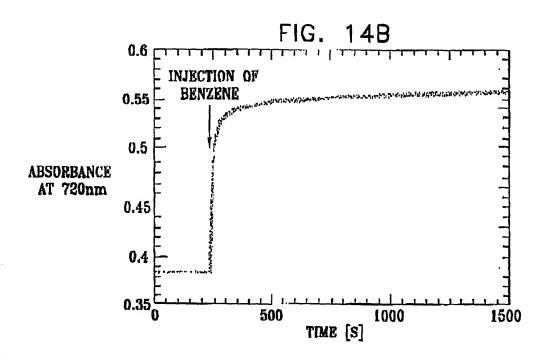
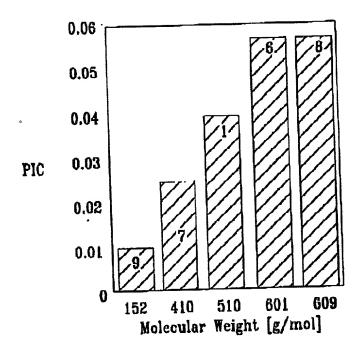


FIG. 15



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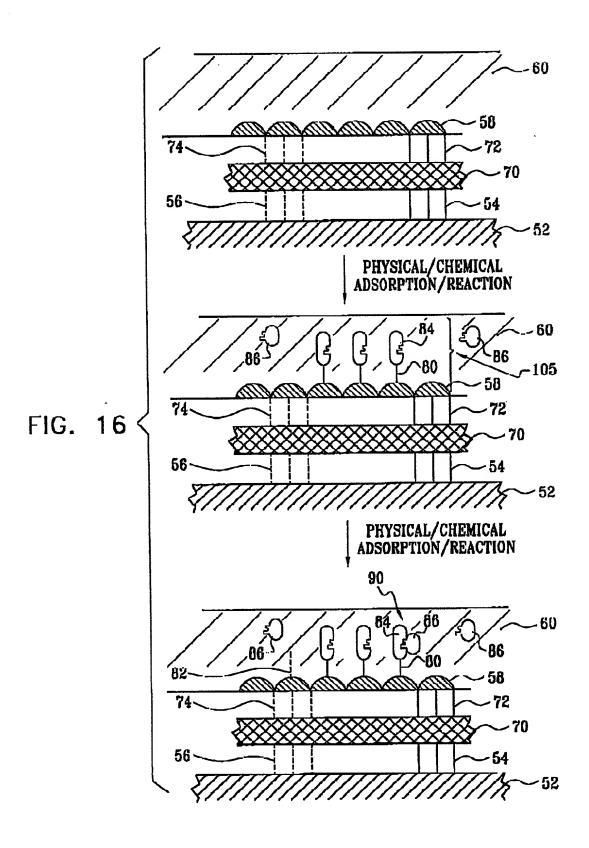


FIG. 17

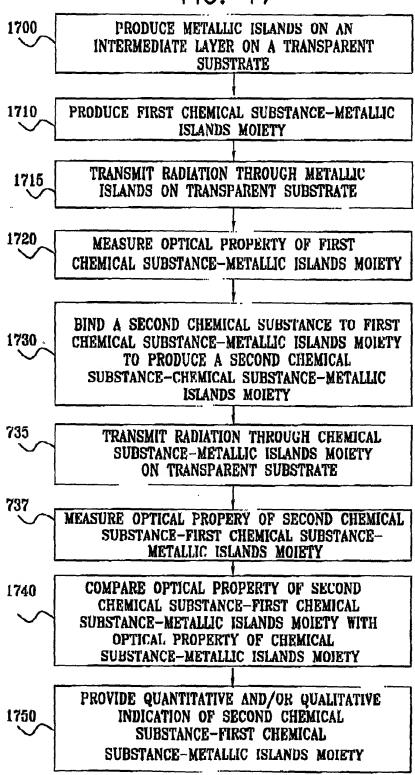


FIG. 18

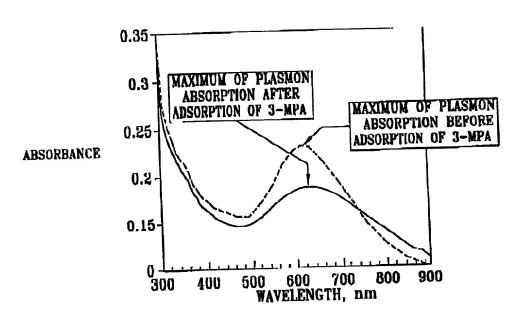


FIG. 19 MAXIMUM OF PLASMON 0.24 ABSORPTION AFTER ADSORPTION OF 3-MPA MAXIMUM OF PLASMON ABSORPTION BEFORE ADSORPTION OF 3-MPA 0.22 0.2 **ABSORBANCE** 0.16 0.14 0.12 300 900 700 800 600 500 400 WAVELENGTH, nm